

BI plans for Hilumi

Beam position monitors

Two systems - today

- DOROS - only for orbit (acquisition rate @ 1Hz)
- WBTN – bunch-by-bunch acquisition (40MHz)
- In preparation for renovation of Interlock BPM
 - Bunch-by-bunch system (digitizing at 3GSa/s for doublet beams)

In the future..

- DOROS
 - Faster orbit acquisition at 25Hz to be compatible with Orbit feedback
 - Turn by Turn acquisition
 - No bunch by bunch possible !
- New bunch-by-bunch acquisition (40MHz)
 - new WBTN worth re-designing for LS3 – how much do we gain compared ?
 - Seems difficult to measure doublet using this technique
- Rad-tolerant system with fast digitalization